

NOTES: (UNLESS OTHERWISE SPECIFIED):

- | PART # | TOOL # | PART # | TOOL # | PART # | TOOL # | PART # | TOOL # |
|--------|--------|--------|--------|--------|--------|--------|--------|
| -33 | -33T | -43 | -43T | -53 | -53T | -63 | -63T |
| -35 | -35T | -45 | -45T | -55 | -55T | -65 | -65T |
| -37 | -37T | -47 | -47T | -57 | -57T | -67 | -67T |
| -39 | -39T | -49 | -49T | -59 | -59T | -69 | -69T |
| -41 | -41T | -51 | -51T | -61 | -61T | -71 | -71T |

-
- Diagram illustrating the front end assembly of a vehicle body, showing the hood, fender, and front door. The diagram includes callouts for "SEE VIEW B" and "SEE VIEW C" pointing to specific components. A circular callout "-07" is also present.

-01 INSTALLATION

REV STATUS OF SHEETS	REV	C	C	C	C	B	C	C	C	B	B	B
	SHEET	1	2	3	4	5	6	7	8	9	10	1

REVISIONS				DATE	APPROVED
ZONE	MOD	REV			
		-	MFG. RELEASE	3/9/92	R. STARK
		A	INCORP. CHANGES PER ECO 3598	9/9/92	<i>[Signature]</i>
		B	INCORP. CHANGES PER ECO 4174	6/1/94	<i>MRC</i>
		C	REVISED PER ECO 4367	10/1/94	<i>MRC</i>

										1	-69	COVER	M/F: 062 THK KYDEX 100 KLEERDEX COMPANY
1											-67	DUCT	M/F: 093 THK KYDEX 100 KLEERDEX COMPANY
1											-65	DUCT	M/F: 093 THK KYDEX 100 KLEERDEX COMPANY
	1										-63	DUCT	M/F: 062 THK KYDEX 100 KLEERDEX COMPANY
	1										-61	DUCT	M/F: 062 THK KYDEX 100 KLEERDEX COMPANY
		1									-59	DUCT	M/F: 062 THK KYDEX 100 KLEERDEX COMPANY
		1									-57	DUCT	M/F: 062 THK KYDEX 100 KLEERDEX COMPANY
					2						-55	DUCT	M/F: 062 THK KYDEX 100 KLEERDEX COMPANY
			1								-53	DUCT	M/F: 062 THK KYDEX 100 KLEERDEX COMPANY
			1								-51	DUCT	M/F: 062 THK KYDEX 100 KLEERDEX COMPANY
				1							-49	DUCT	M/F: 062 THK KYDEX 100 KLEERDEX COMPANY
				1							-47	DUCT	M/F: 062 THK KYDEX 100 KLEERDEX COMPANY
					1						-45	DUCT	M/F: 062 THK KYDEX 100 KLEERDEX COMPANY
					1						-43	DUCT	M/F: 062 THK KYDEX 100 KLEERDEX COMPANY
						1					-41	DUCT	M/F: 062 THK KYDEX 100 KLEERDEX COMPANY
						1					-39	DUCT	M/F: 062 THK KYDEX 100 KLEERDEX COMPANY
							1				-37	DUCT	M/F: 062 THK KYDEX 100 KLEERDEX COMPANY
								1			-35	DUCT	M/F: 093 THK KYDEX 100 KLEERDEX COMPANY
									1		-33	DOUBLER	M/F: 080 THK ALUM 2024-T3-00-A-250/4
											-31	OPEN	
										2	-29	DUCT ASSY	
											-27	DUCT ASSY	
											-25	DUCT ASSY	
											-23	DUCT ASSY	
											-21	DUCT ASSY	
											-19	DUCT ASSY	
											-17	DUCT ASSY	
											-15	DUCT ASSY	
											-13	BLOWER ASSY	
											-11	MODIFICATION	
											-09	BLOWER ASSY	
											-07	DUCT MODIFICATION	
											-06	DUCT MODIFICATION (OPP. -05)	
											-05	DUCT MODIFICATION	
											-03	DUCT VALVE ASSY	
											-01	INSTALLATION	

ECO

4425

4656

4806

4834

484Z

4860

5471

ECO

4425

4656

4806

4834

4842

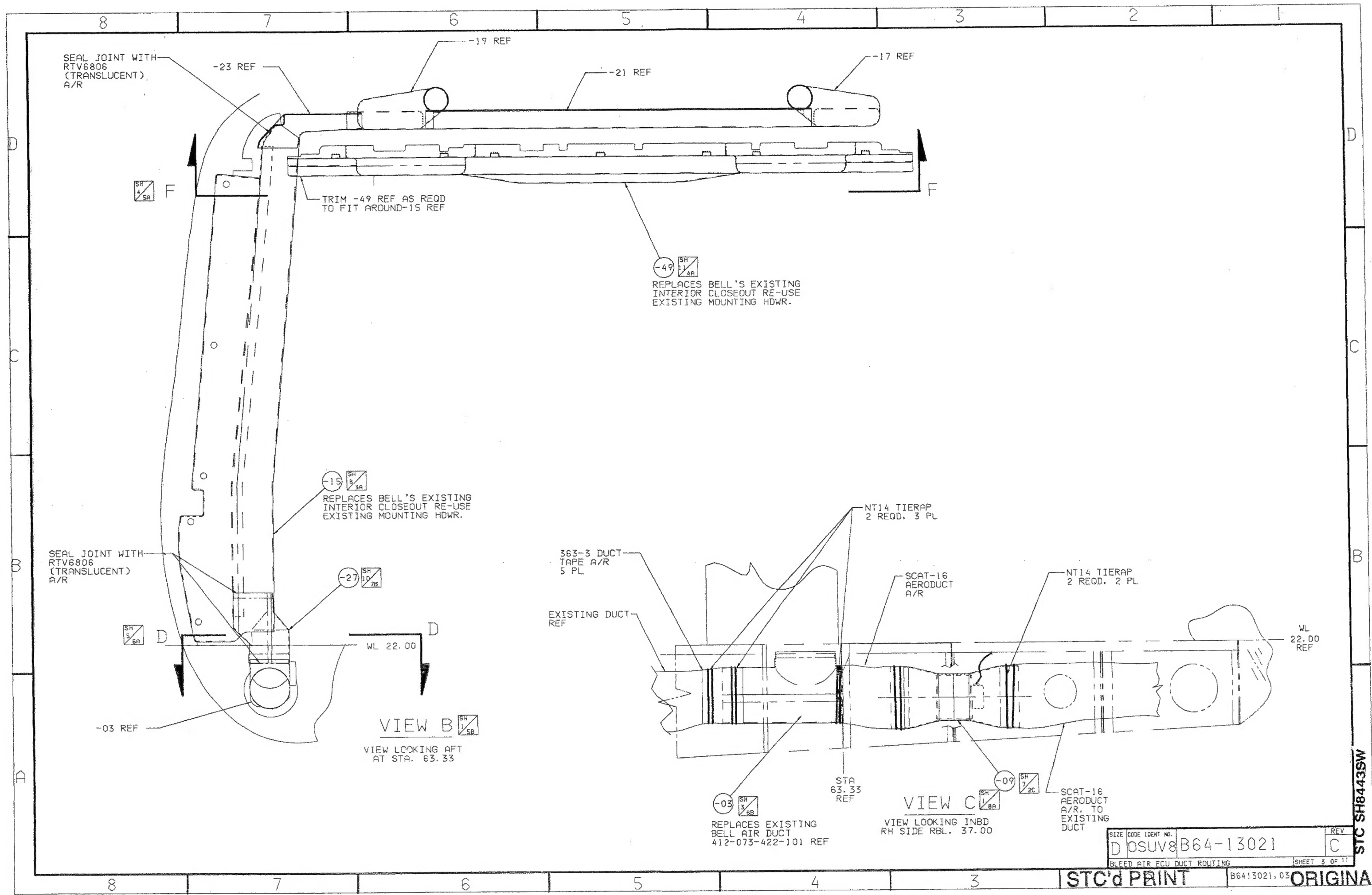
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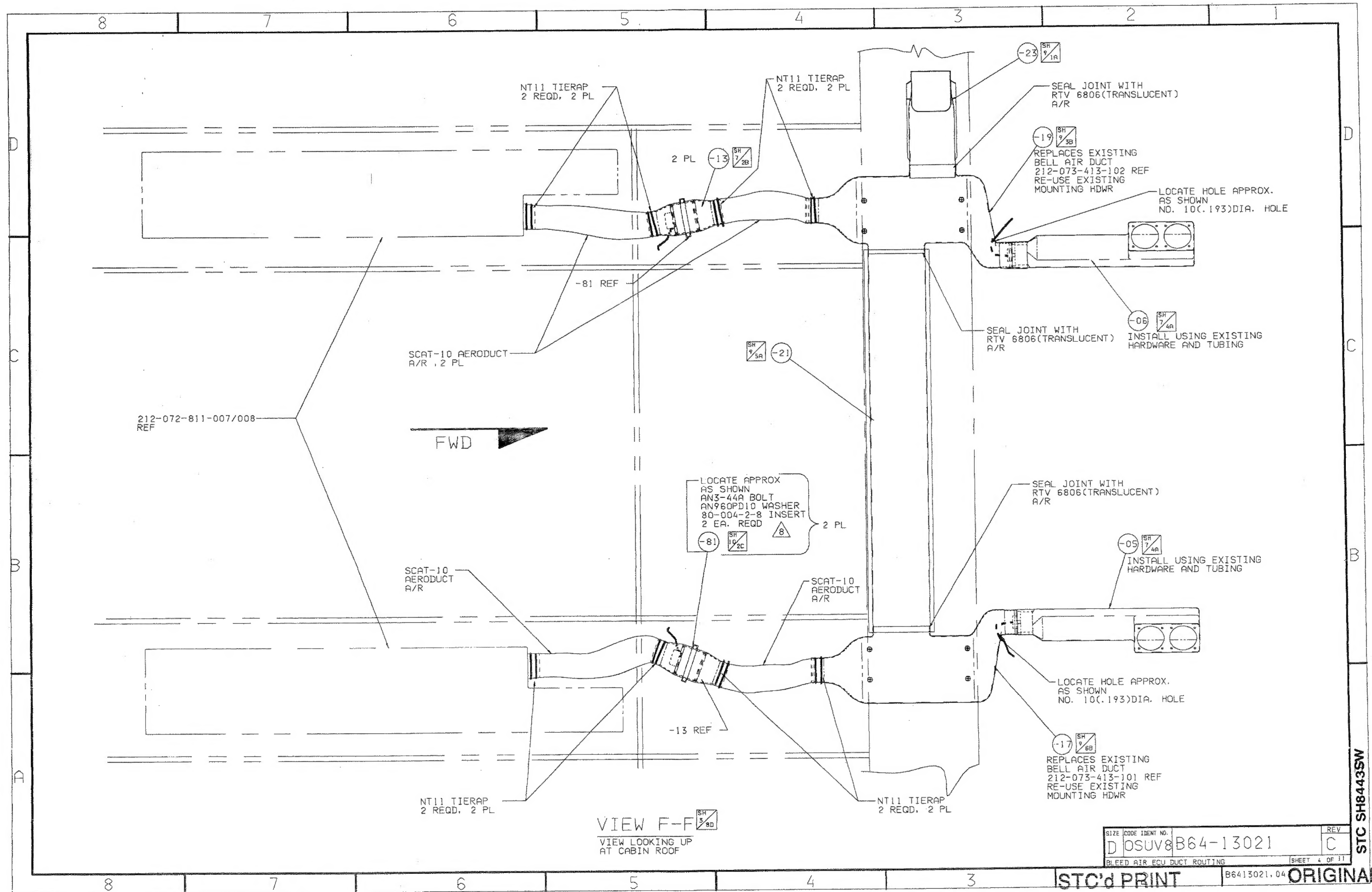
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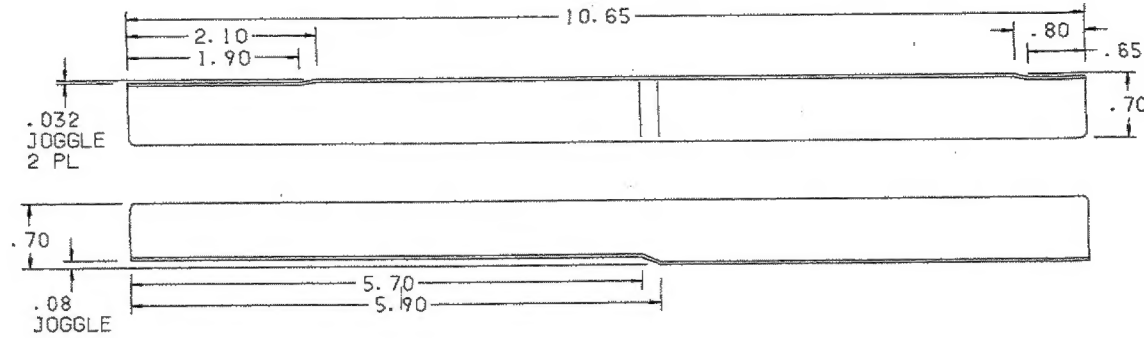
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STC'd PRINT	86413021, 01	ORIGINAL
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[illegible]



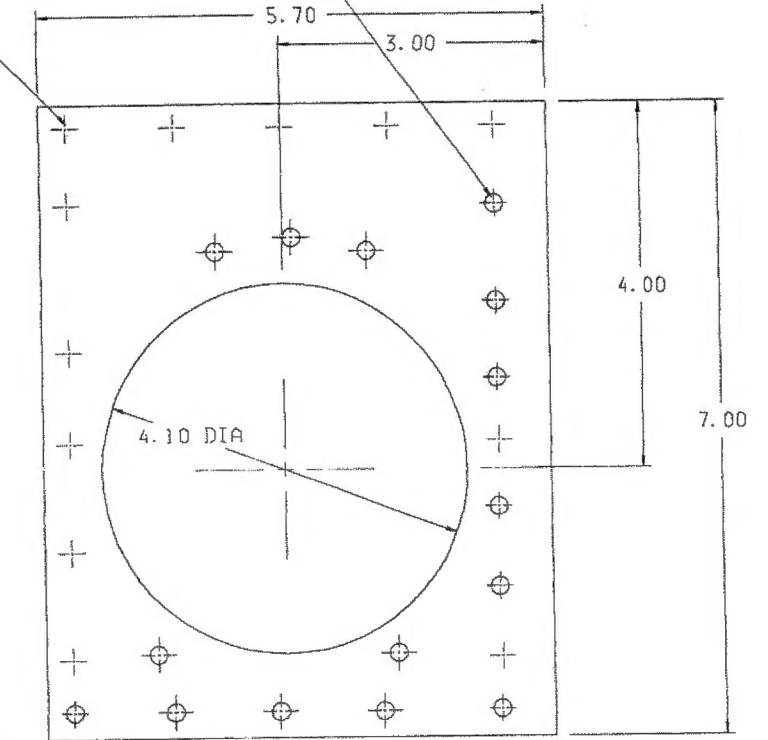




-107 BRKT
M/F: .032 TH ALUM
2024-T3, QQ-A-250/4

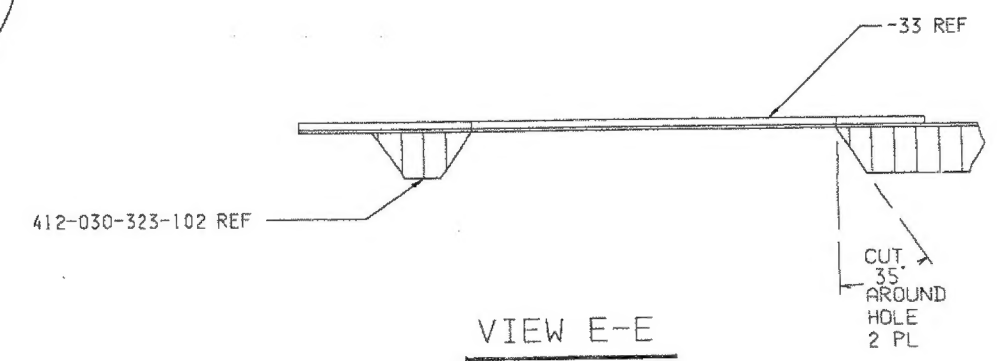
MATCH DRILL TO EXISTING
HOLES IN 412-030-323-102
PANEL REF. 12 PL

NO 40(.098) DIA HOLE
15 PL



-107
REPLACES BELL'S EXISTING
BRKT USE EQUIVALENT
EXISTING MOUNTING HDWR

-33 DOUBLER
M/F: .080 THK 2024-T3
QQ-A-250/4
TEMPLATE



VIEW E-E
ROTATED 90° CW

REMOVE TIE DOWN LUG
AND FILL WITH METAL SET

VIEW D-D
SF 3/8B 5

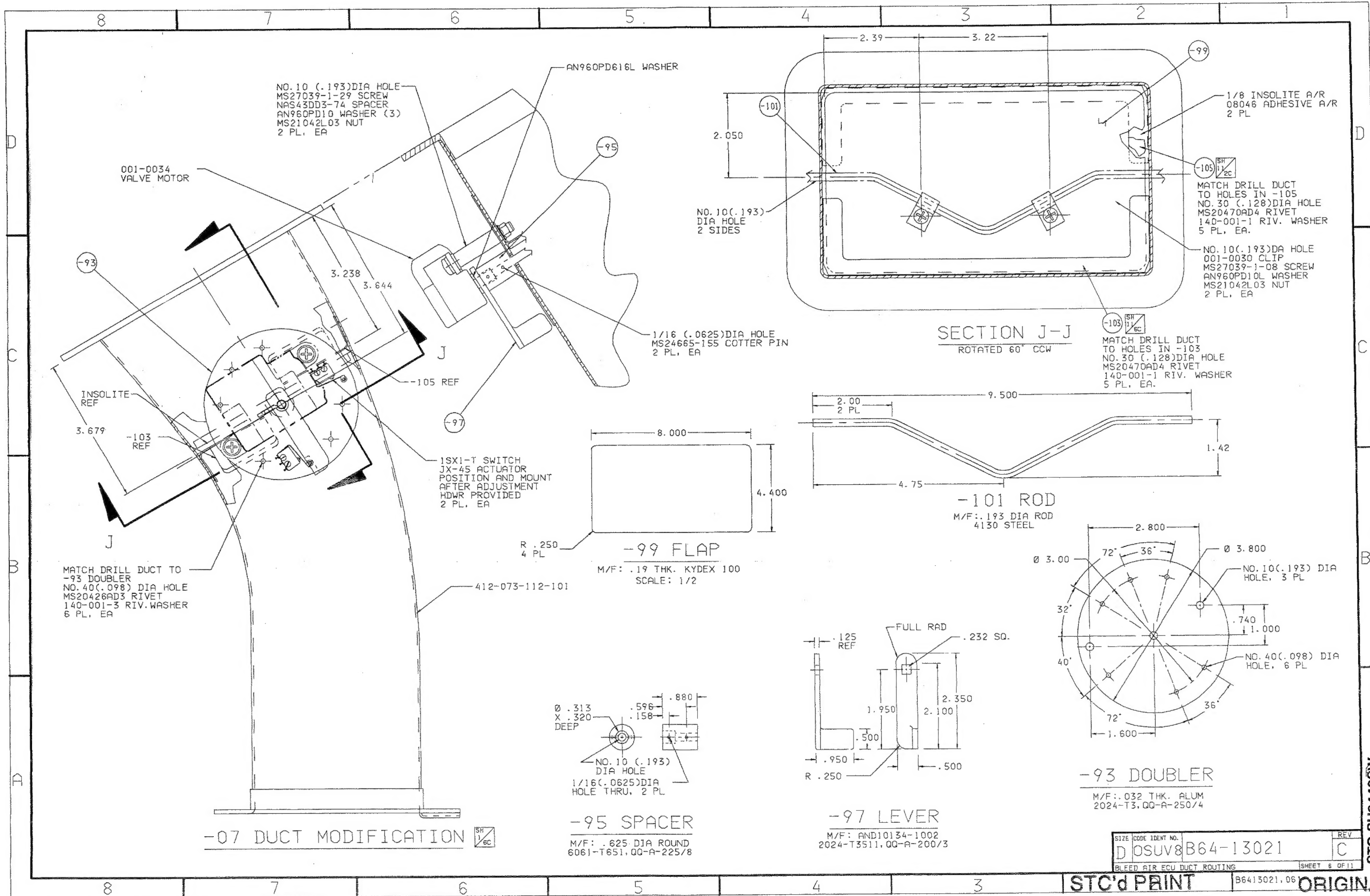
-11 MOD
VIEW LOOKING DOWN AT WL 22.0
ROTATED 90° CW

FWD

SIZE	CODE IDENT NO.	REV
D	OSUV8B64-13021	B
BLEED AIR ECU DUCT ROUTING		SHEET 5 OF 11

STC'd PRINT ORIGINAL

STC SH8443SW



NO.10 (.193) DIA HOLE
MS27039-1-29 SCREW
NAS43DD3-74 SPACER
AN960PD10 WASHER (3)
MS21042L03 NUT
2 PL, EA

001-0034
VALVE MOTOR

AN960PD616L WASHER

NO.10(.193)
DIA HOLE
2 SIDES

1/16 (.0625) DIA HOLE
MS24665-155 COTTER PIN
2 PL, EA

1/8 INSOLITE A/R
08046 ADHESIVE A/R
2 PL

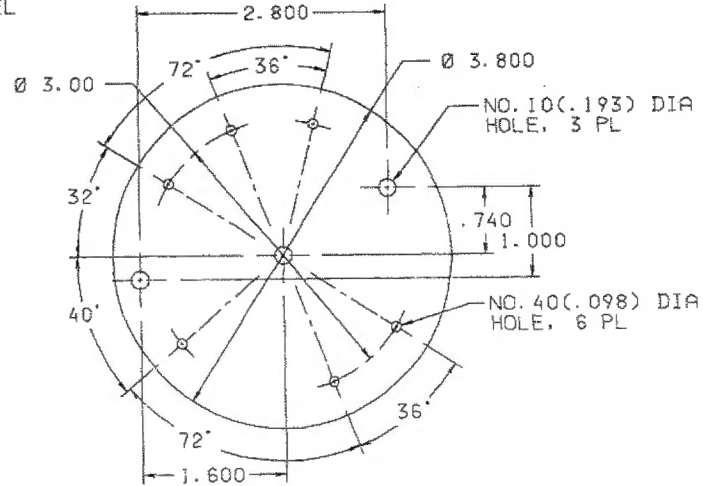
MATCH DRILL DUCT
TO HOLES IN -105
NO.30 (.128) DIA HOLE
MS20470AD4 RIVET
140-001-1 RIV. WASHER
5 PL, EA.

NO.10(.193) DIA HOLE
001-0030 CLIP
MS27039-1-08 SCREW
AN960PD10L WASHER
MS21042L03 NUT
2 PL, EA

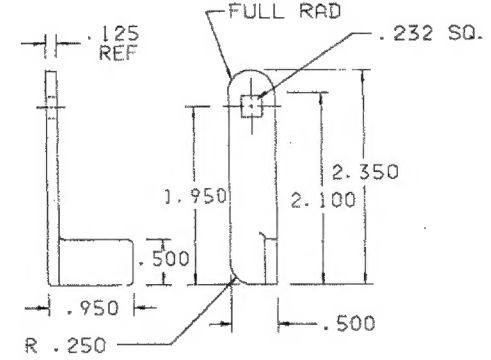
MATCH DRILL DUCT
TO HOLES IN -103
NO.30 (.128) DIA HOLE
MS20470AD4 RIVET
140-001-1 RIV. WASHER
5 PL, EA.

SECTION J-J
ROTATED 60° CCW

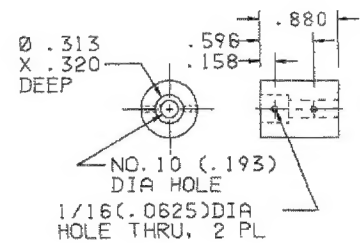
-101 ROD
M/F: .193 DIA ROD
4130 STEEL



-93 DOUBLER
M/F: .032 THK. ALUM
2024-T3, QQ-A-250/4



-97 LEVER
M/F: AND10134-1002
2024-T3511, QQ-A-200/3



-95 SPACER
M/F: .625 DIA ROUND
6061-T651, QQ-A-225/8

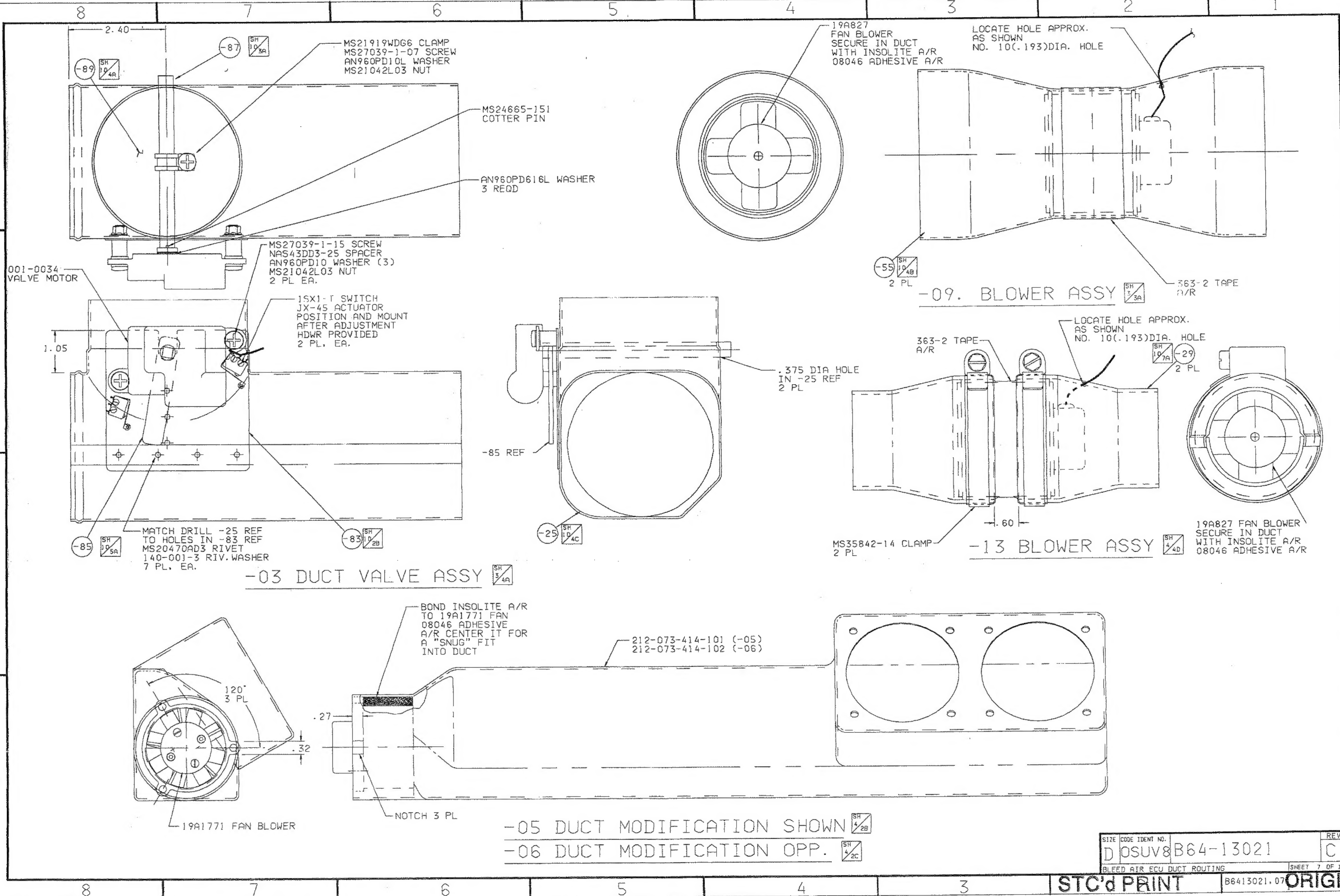
MATCH DRILL DUCT TO
-93 DOUBLER
NO.40(.098) DIA HOLE
MS20426AD3 RIVET
140-001-3 RIV. WASHER
6 PL, EA

-07 DUCT MODIFICATION

SIZE CODE IDENT NO.
D OSUV8 B64-13021

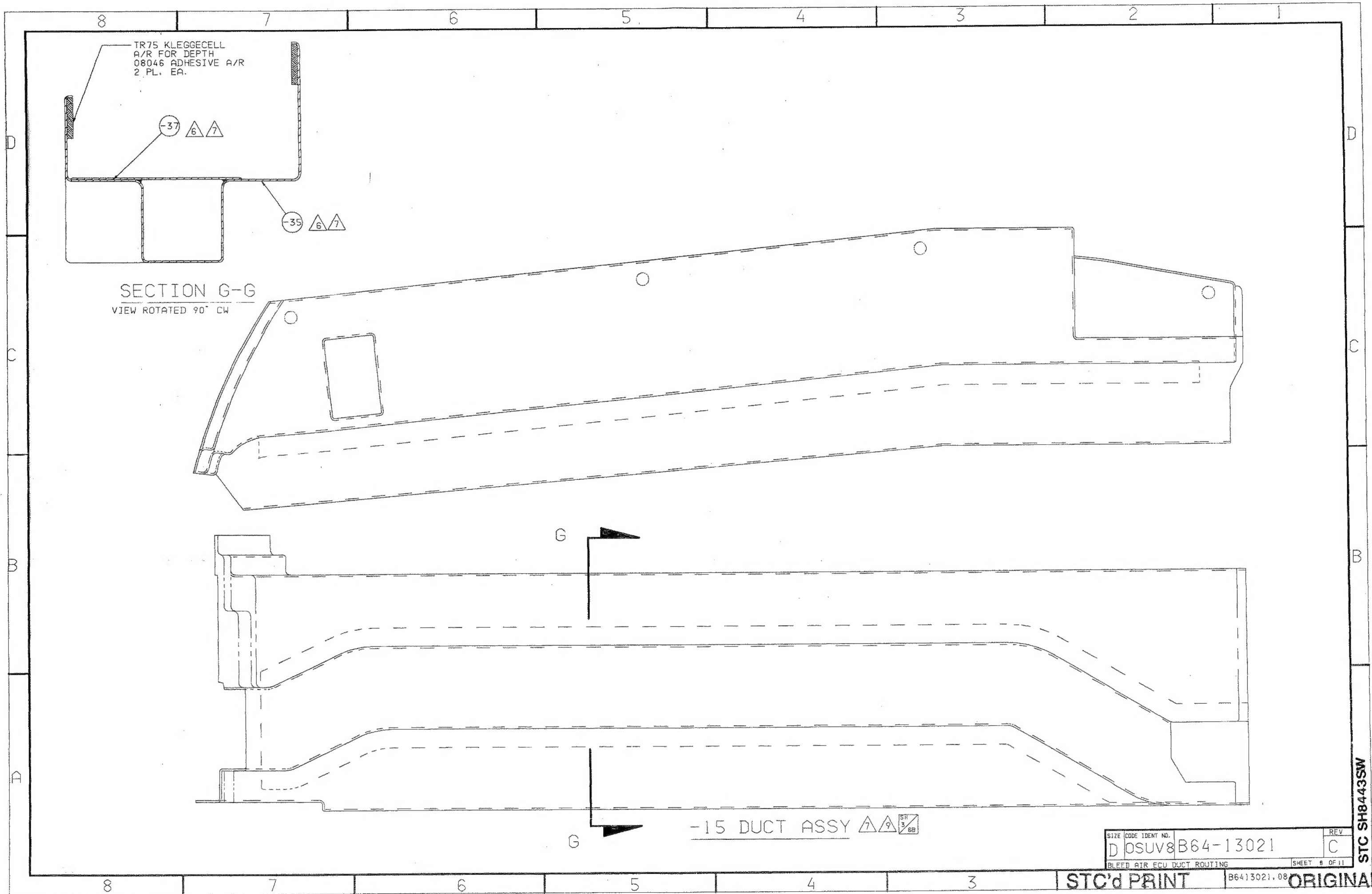
BLEED AIR ECU DUCT ROUTING SHEET 6 OF 11

STC SH8443SW



SIZE	CODE IDENT NO.	REV
D	OSUV8B64-13021	C
BLEED AIR ECU DUCT ROUTING		SHEET 7 OF 11

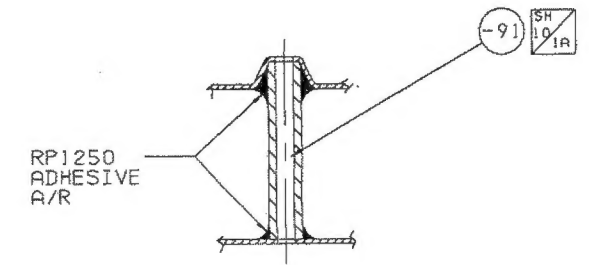
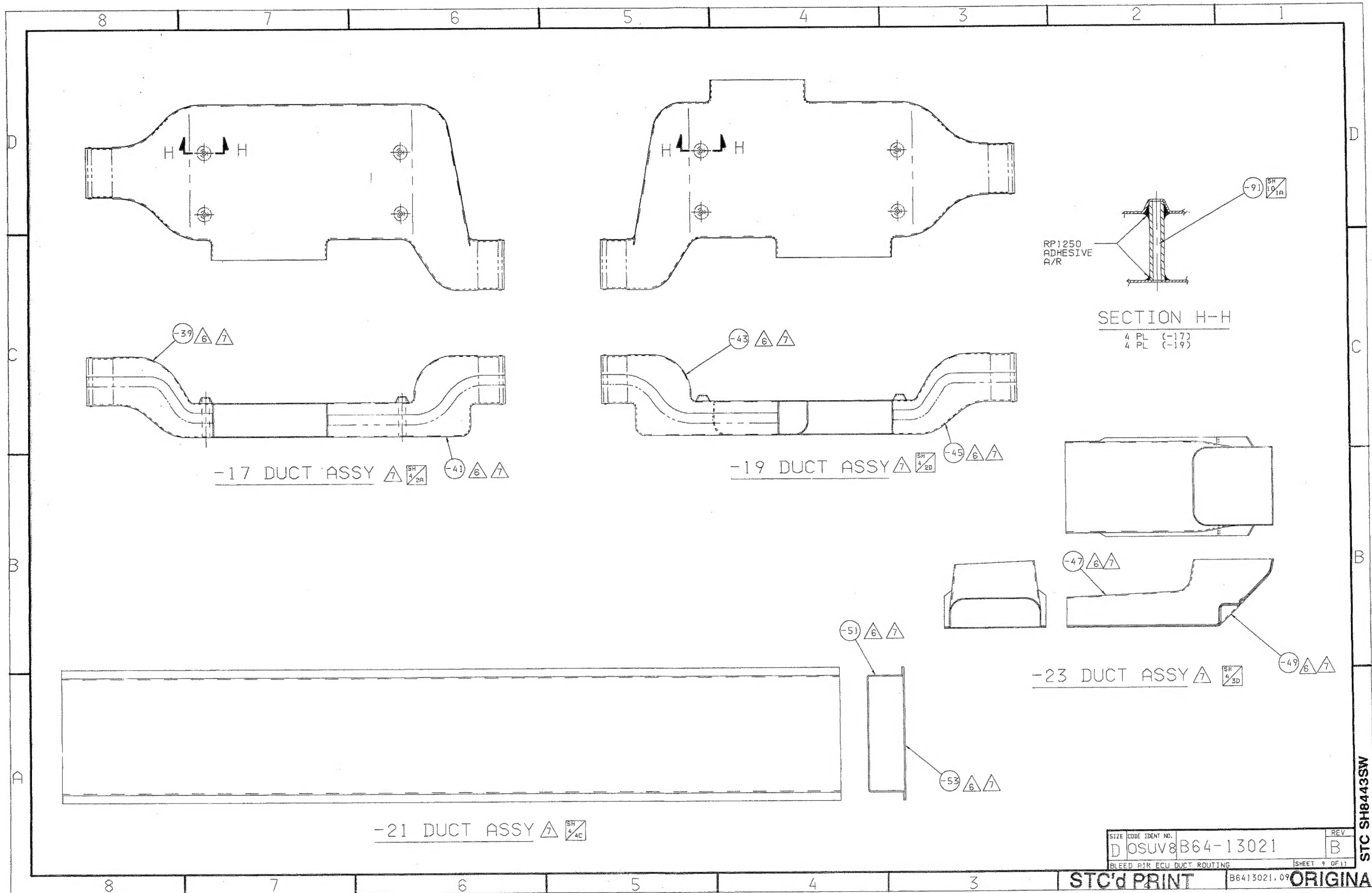
STC SH8443SW



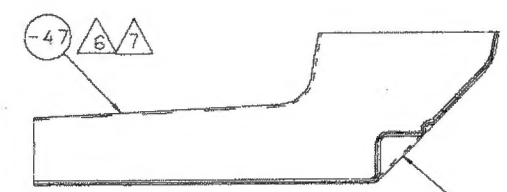
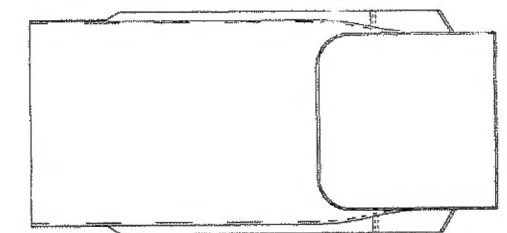
SIZE	CODE	IDENT NO.	REV
D	OSUV8	B64-13021	C
BLEED AIR ECU DUCT ROUTING			SHEET 8 OF 11

STC'd PRINT B6413021.08 ORIGINAL

STC SH8443SW



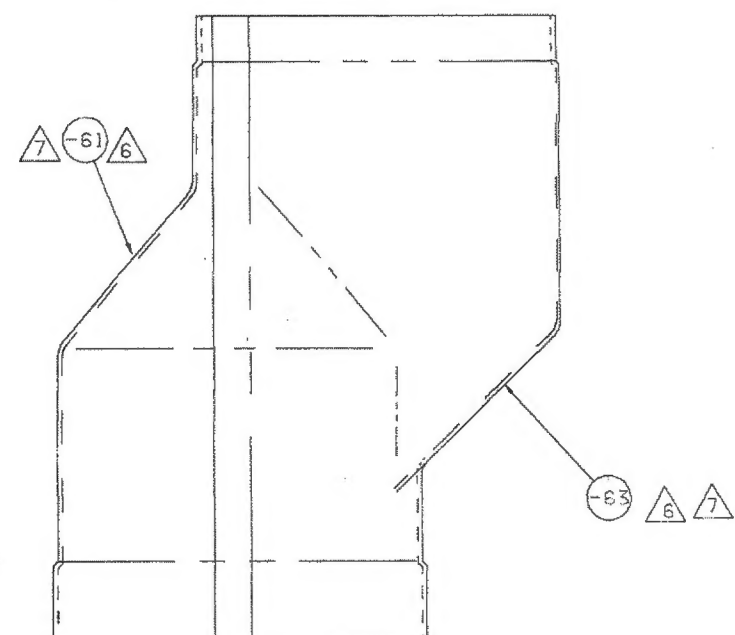
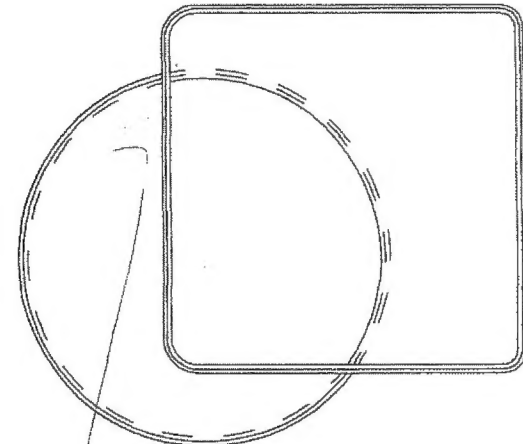
SECTION H-H
4 PL (-17)
4 PL (-19)



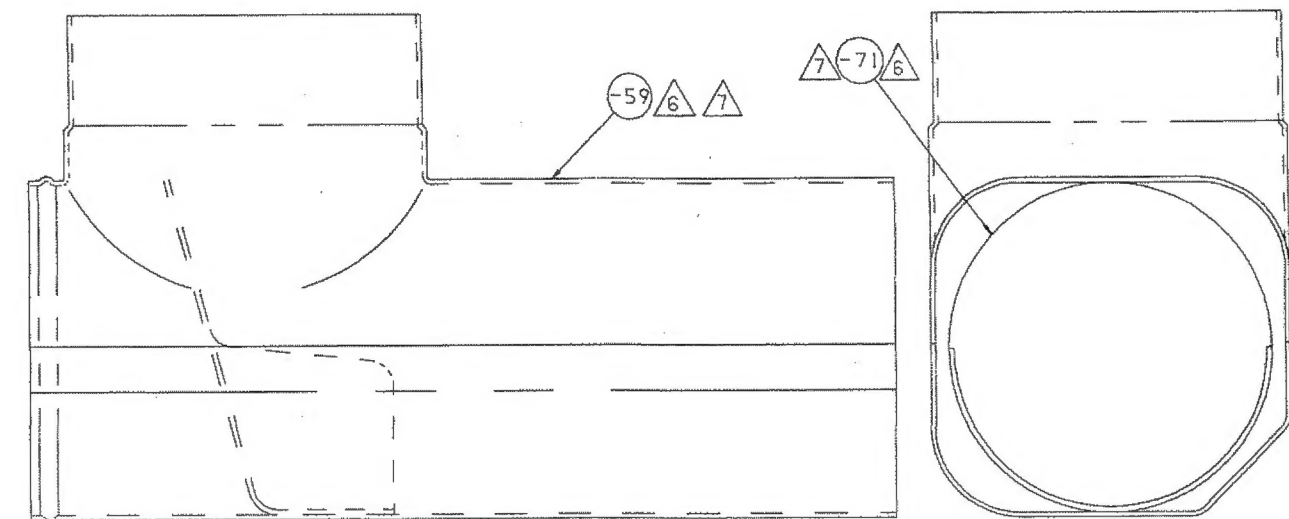
-23 DUCT ASSY

SIZE	CODE	IDENT NO.	REV
D	OSUV8	B64-13021	B
BLEED AIR ECU DUCT ROUTING			SHEET 9 OF 11

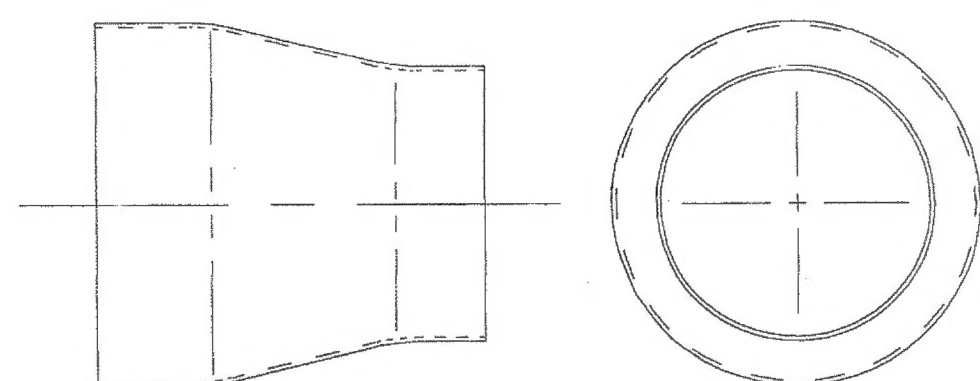
STC SH8443SW



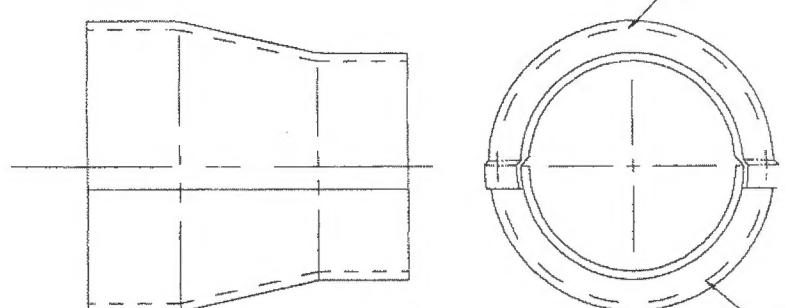
-27 DUCT ASSY



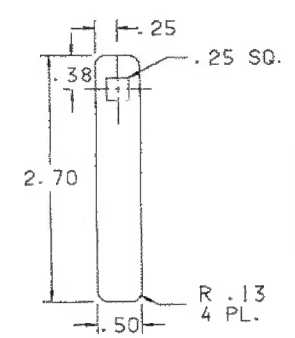
-25 DUCT ASSY



-55 DUCT

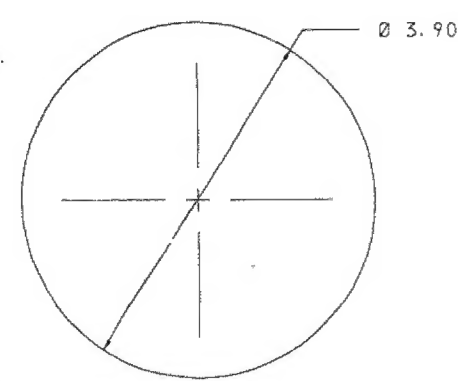


-29 DUCT ASSY



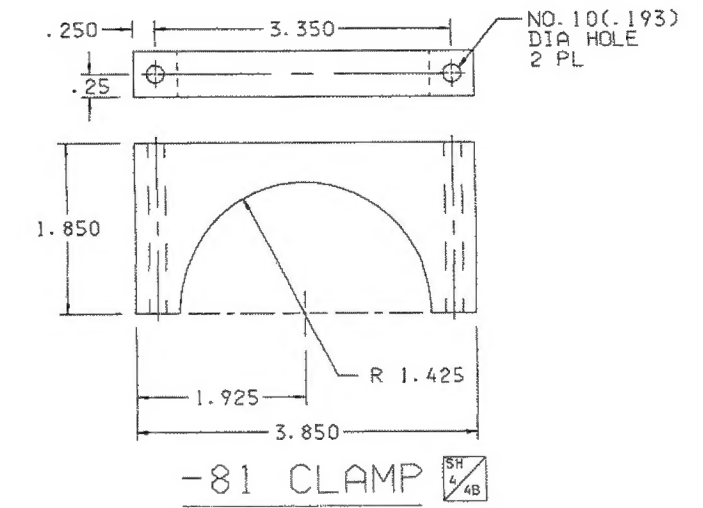
-85 BRKT

M/F: .032 THK ALUM
2024-T3, QQ-A-250/4



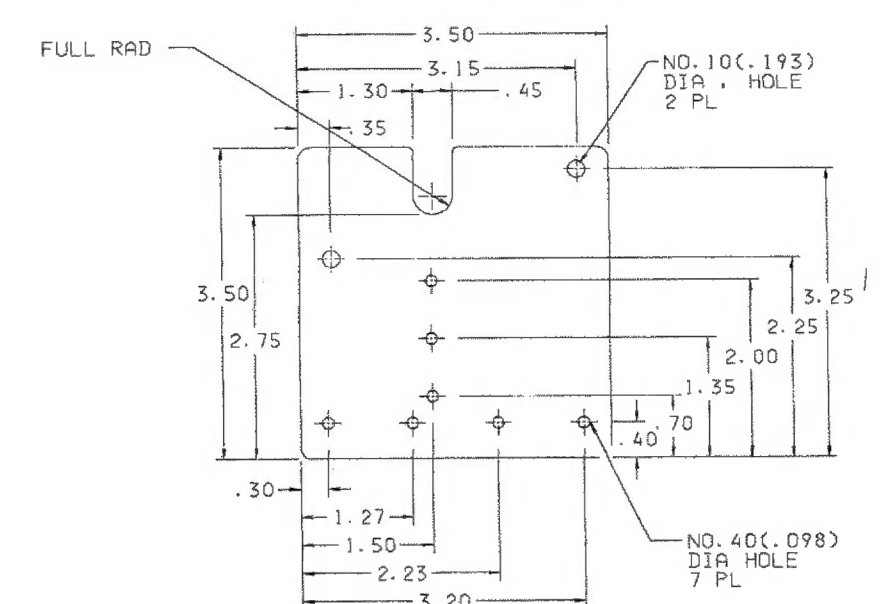
-89 BRKT

M/F: .032 THK ALUM
2024-T3, QQ-A-250/4



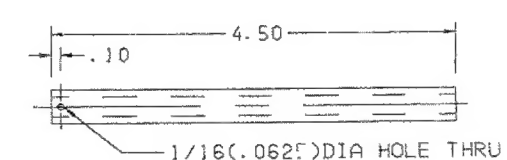
-81 CLAMP

M/F: .500 THK PHENOLIC



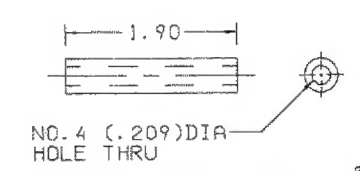
-83 BRKT

M/F: .032 THK ALUM
2024-T3, QQ-A-250/4



-87 SPACER

M/F: NAS43DD4-160 SPACER

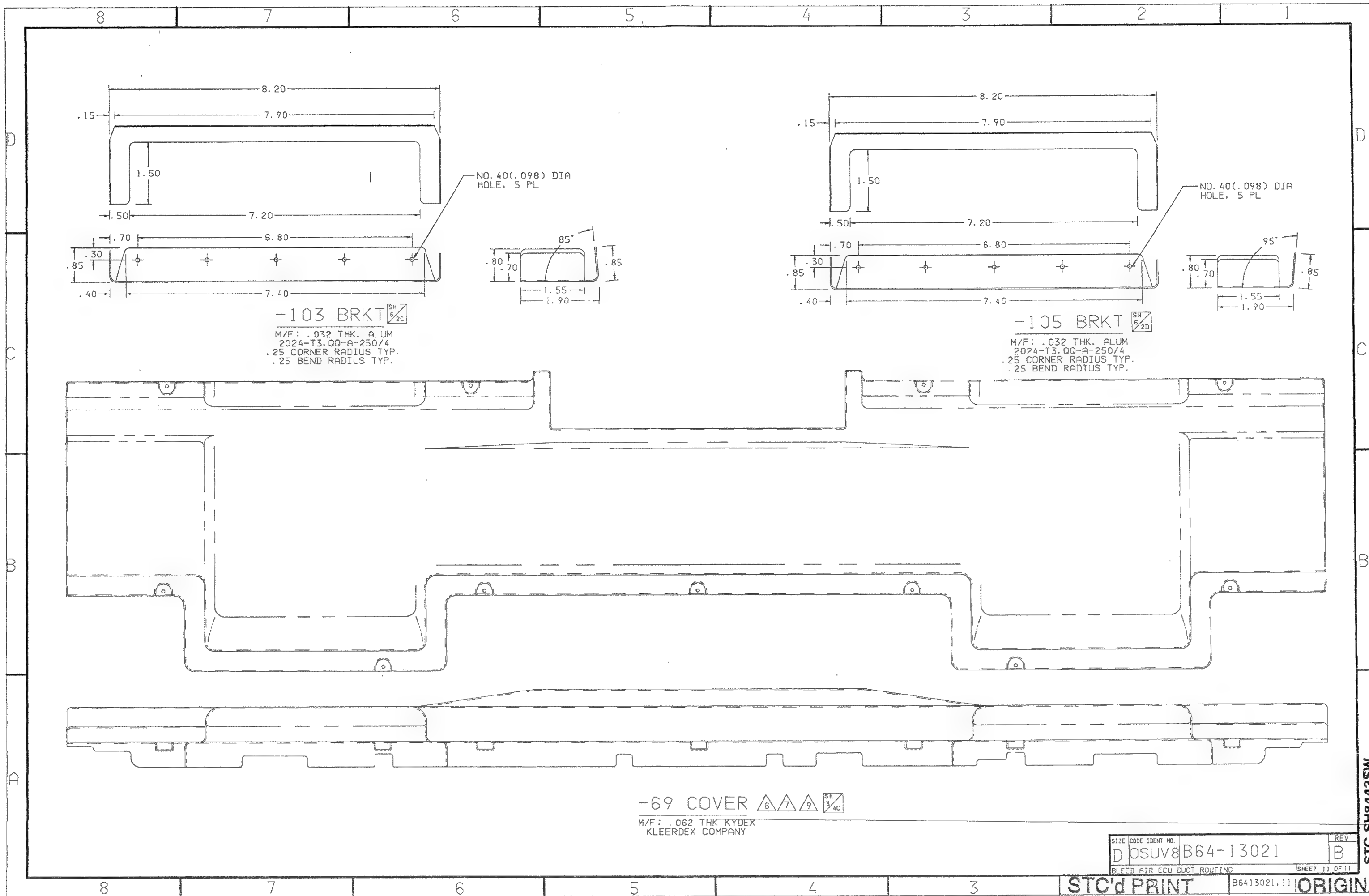


-91 SPACER

M/F: .375 DIA ROUND
6061-T651, QQ-A-225/8

SIZE	CODE	IDENT NO.	REV
D	OSUV8	B64-13021	B
BLEED AIR ECU DUCT ROUTING			SHEET 10 OF 11

STC SH8443SW



<input checked="" type="checkbox"/> ECO <input type="checkbox"/> ECR NO. 4425	EFF DATE OF CHG 19 JAN. 95	REQUESTED BY Q.C.	PAGE 1 OF 1
REASON FOR CHANGE ACFT UPDATE	DOCUMENTS AFFECTED SEE BELOW	SYSTEM	MATL DISPOSITION
MARKED PRINTS ATTACHED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		SERIAL NO EFF	RERWORK SCRAP USE AS IS

DISPOSITION / COMMENTS

SEE BELOW

THIS ECO TO BE INCORPORATED AT A LATER DATE

DESCRIPTION

"DWG. NO"	"REV. IS"	"STC NO."	
B30.23000	D	SH8625SW	This portion incorp/ECO 4533 ADD TO "USED ON" BLOCK "412EP"
000.13000	E	SH8477SW	
000.13001	E	SH8478SW	
000.13002	E	SH8479SW	
B64.13020	C	SH8443SW	
B64.13021	C	"	This portion Incorp per ECO 4991
B64.13022	C	"	
B74.22008	B	"	
B19.13000	H	SH8202SW	
B19.13003	B	"	
B20.13101	G	SH8127SW	
B19.13001	G	SH7748SW	
B20.13006	C	"	
B74.24017	H	"	

IMPACT YES NO <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		PROCUREMENT ACTION YES NO <input type="checkbox"/> <input checked="" type="checkbox"/>		PRIORITY 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/>		CHANGE CLASSIFICATION <input checked="" type="checkbox"/> RECORD <input type="checkbox"/> PMA MAJOR <input type="checkbox"/> TSO MAJOR <input type="checkbox"/> PMA MINOR <input type="checkbox"/> TSO MINOR	
PREPARED BY L. CELESTINO	DATE 1/19/95	PROJECT ENG [Signature]	DATE 1/19/95	QA [Signature]	DATE 1/19/95	FAA SUBMITTAL YES	
CHECKED BY W. Hamaker	DATE 1/19/95	MFG [Signature]	DATE 1/19/95	PROD SPRT [Signature]	DATE 1/19/95	ENGRG APPR W. Hamaker	DATE 1/19/95

<input checked="" type="checkbox"/> ECO <input type="checkbox"/> ECR	NO. 4656	EFF DATE OF CHG 30 Nov. 95	REQUESTED BY N. EIVENS	PREMIER	PAGE 1 OF 1
REASON FOR CHANGE CERTIFICATION		DOCUMENTS AFFECTED B64-13020 B64-13021 B64-13022 B74-22008	SYSTEM	MATL DISPOSITION	
MARKED PRINTS ATTACHED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		SERIAL NO EFF	REWORK	STORE	IN MFG.
			SCRAP		
			USE AS IS		

DISPOSITION / COMMENTS

B64-13020 REV. 15 "C"
B64-13021 REV. 15 "C"
B64-13022 REV. 15 "C"
B74-22008 REV. 15 "E"

THIS ECO TO BE
INCORPORATED AT
A LATER DATE. (STC SH8443SW)

DESCRIPTION

• ADD "ZIZ" TO USED ON BLOCK TO
 DRAWINGS LISTED ABOVE.

B74-22008 Incorp per ECO 4991

IMPACT		PROCUREMENT ACTION		PRIORITY		CHANGE CLASSIFICATION	
INTERCHANGEABILITY	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	1 <input type="checkbox"/>	RECORD		PMA MAJOR <input type="checkbox"/> TSO MAJOR <input type="checkbox"/>	
DRAWING CHANGE	<input type="checkbox"/>		2 <input type="checkbox"/>			PMA MINOR <input type="checkbox"/> TSO MINOR <input type="checkbox"/>	
SPECIFICATION	<input type="checkbox"/>		3 <input checked="" type="checkbox"/>				
SPARES	<input type="checkbox"/>						
PREPARED BY L. CELESTINO	DATE 11/30/95	PROJECT ENG [Signature]	DATE [Signature]	QA [Signature]	DATE 11/30/95	FAA SUBMITTAL YES	
CHECKED BY N. LAMBER	DATE 11/30/95	MFG [Signature]	DATE [Signature]	PROP SPRT [Signature]	DATE [Signature]	ENGRG APPR N. Lamber	DATE 11/30/95

<input checked="" type="checkbox"/> ECO <input type="checkbox"/> ECR NO. 4806	EFF DATE OF CHG 08-07-96	REQUESTED BY ROBERT FLORES	PAGE 1 OF 1									
	REASON FOR CHANGE ADD ALTERNATE MATERIAL	DOCUMENTS AFFECTED B64-13021	SYSTEM BLEED AIR ECU DUCT ROUTING	MATL DISPOSITION								
MARKED PRINTS ATTACHED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		SERIAL NO EFF	<table border="1"> <tr> <td>REWORK</td> <td>STORE</td> <td>IN MFG.</td> </tr> <tr> <td>SCRAP</td> <td></td> <td></td> </tr> <tr> <td>USE AS IS</td> <td></td> <td></td> </tr> </table>	REWORK	STORE	IN MFG.	SCRAP			USE AS IS		
REWORK	STORE	IN MFG.										
SCRAP												
USE AS IS												

DISPOSITION / COMMENTS **THIS IS AN UNINCORPORATED ECO. STC SH8443 SW**
REVISION IS "C."

DESCRIPTION **LOCATION: DWG. B64-13021, SHEET 2, ZONE 1B**

(WAS:) **M/F: NAS43DD4-160 SPACER**

(IS:) **M/F: NAS43DD4-320 SPACER**
ALT. MATL: 2024-T3 TUBE PER
QQ-A-200/3, .375 OD X .045 MIN WALL

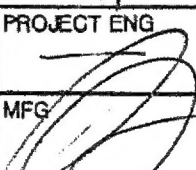

LOCATION: DWG. B64-13021, SH. 10, ZN. 3A

(WAS:) **- 87 SPACER**

M/F: NAS43DD4-160 SPACER

(IS:) **- 87 SPACER**

M/F: NAS43DD4-320 SPACER
ALT. MATL: 2024-T3 TUBE PER
QQ-A-200/3, .375 OD X .045 MIN WALL

IMPACT INTERCHANGEABILITY DRAWING CHANGE SPECIFICATION SPARES		YES <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	NO <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	PROCUREMENT ACTION YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	PRIORITY 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/>	CHANGE CLASSIFICATION <input checked="" type="checkbox"/> RECORD <input type="checkbox"/> PMA MAJOR <input type="checkbox"/> TSO MAJOR <input type="checkbox"/> PMA MINOR <input type="checkbox"/> TSO MINOR	
PREPARED BY C.I. MARSHALL	DATE 8/7/96	PROJECT ENG 	DATE 8/7/96	QA mw	DATE 8/7/96	FAA SUBMITTAL YES		
CHECKED BY M. Hamaker	DATE 8/7/96	MFG 	DATE 8/7/96	PROD SPRT mw	DATE 8/7/96	ENGRG APPR M. Hamaker	DATE 8/7/96	

<input checked="" type="checkbox"/> ECO <input type="checkbox"/> ECR	NO. 4834	EFF DATE OF CHG 9/13/96	REQUESTED BY ECR 971	PREMIER	PAGE 1 OF 1
REASON FOR CHANGE		DOCUMENTS AFFECTED	SYSTEM BLEED AIR ECU DUCT ROUTING	MATL DISPOSITION	
ADD NOTES		B64-13021 REV "C"	SERIAL NO EFF	REWORK	STORE IN MFG.
MARKED PRINTS ATTACHED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				SCRAP	
				USE AS IS	

DISPOSITION/COMMENTS

THIS ECO UNINCORPORATES ECR 971
REV; IS "C"

STC SH8443SW

DESCRIPTION

LOCATION DWGN B64-13021, SHEET 1 ZONE 8C AND PL , ZONES 1C-1D

ADDED:



ALTERNATE MATL. THK .093
FOR ALL KYDEX 100 PARTS.

IMPACT		YES NO		PROCUREMENT ACTION		PRIORITY		CHANGE CLASSIFICATION	
INTERCHANGEABILITY		<input type="checkbox"/>	<input checked="" type="checkbox"/>	YES NO		1 2 3		RECORD	
DRAWING CHANGE		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/> PMA MAJOR <input type="checkbox"/> TSO MAJOR	
SPECIFICATION		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/> PMA MINOR <input type="checkbox"/> TSO MINOR	
SPARES		<input type="checkbox"/>	<input checked="" type="checkbox"/>						
PREPARED BY	DATE	PROJECT ENG	DATE	QA	DATE	FAA SUBMITTAL			
M. HOWELL	9/13/96			<i>W. Hamaker</i>	9/13/96	NO			
CHECKED BY	DATE	MFG	DATE	PROD SPRT	DATE	ENGRG APPR	DATE		
<i>W. Hamaker</i>	9/13/96					<i>W. Hamaker</i>	9/13/96		

<input checked="" type="checkbox"/> ECO <input type="checkbox"/> ECR	NO. 4842	EFF DATE OF CHG 09-17-96	REQUESTED BY ECR 454 WAYNE JOHNSON	PREMIER	PAGE 1 OF 1
REASON FOR CHANGE .190 THK KYDEX IS NOT AVAILABLE.		DOCUMENTS AFFECTED B64-13021	SYSTEM BLEED AIR ECU DUCT ROUTING	MATL DISPOSITION	
MARKED PRINTS ATTACHED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		SERIAL NO EFF	REWORK	STORE	IN MFG.
			SCRAP		
			USE AS IS		

DISPOSITION / COMMENTS

THIS IS AN UNINCORPORATED ECO.

REVISION C.

STC SH8443SW

DESCRIPTION

LOCATION : DOW. DO. B64-13021, SHEET 6, ZONE 5B.

(WAS) .190 THK KYDEX 100

(IS) ALTERNATE MATERIAL:
.125 THK KYDEX 100

IMPACT		YES		NO		PROCUREMENT ACTION		PRIORITY		CHANGE CLASSIFICATION			
INTERCHANGEABILITY		<input checked="" type="checkbox"/>		<input type="checkbox"/>		YES		NO		1 <input type="checkbox"/>		RECORD	
DRAWING CHANGE		<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>		2 <input type="checkbox"/>		<input type="checkbox"/> PMA MAJOR <input type="checkbox"/> TSO MAJOR	
SPECIFICATION		<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>		3 <input checked="" type="checkbox"/>		<input type="checkbox"/> PMA MINOR <input type="checkbox"/> TSO MINOR	
SPARES		<input type="checkbox"/>		<input checked="" type="checkbox"/>									
PREPARED BY	DATE	PROJECT ENG	DATE	QA	DATE	FAA SUBMITTAL							
GLORIA J. MARSHALL	9/17/96			W. Schmidt	9/18/96	YES							
CHECKED BY	DATE	MFG	DATE	PROD SPRT	DATE	ENGRG APPR	DATE						
W. Schmidt	9/17/96	J. M. S.	9/17/96			W. Schmidt	9/17/96						

<input checked="" type="checkbox"/> ECO <input type="checkbox"/> ECR	NO. 4860	EFF DATE OF CHG 04 OCT 96	REQUESTED BY ECR 977 WAYNE JOHNSON	PREMIER	PAGE 1 OF 1
REASON FOR CHANGE UP-GRADE		DOCUMENTS AFFECTED BL04-13021	SYSTEM BLEED AIR ECU DUCT ROUTING	MATL DISPOSITION	
MARKED PRINTS ATTACHED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		SERIAL NO EFF	REWORK	STORE	IN MFG.
			SCRAP		
			USE AS IS		

DISPOSITION / COMMENTS THIS IS AN UNINCORPORATED ECO. STC # 54B4435W
REV. IS C.

DESCRIPTION LOCATION: BL04-13021, SHEET 6, ZONE 5B.

(WAS:) - 99 LAP

M/F .19 THK KYDEX 100
SCALE: V2

(IS:) - 99 LAP

M/F .19 THK KYDEX 100
ALT: .125 THK KYDEX 100
SCALE: V2

LOCATION: BL04-13021, SHEET 2, ZONE 3A.

(WAS:) PART LIST:

-85 BRKT M/F: .100 THK ALUM
2024-T3, QQ-A-250/4

(IS:) PART LIST:

-85 BRKT M/F: .032 THK ALUM
2024-T3, QQ-A-250/4

IMPACT		PROCUREMENT ACTION		PRIORITY		CHANGE CLASSIFICATION	
INTERCHANGEABILITY	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	1 <input type="checkbox"/>	RECORD			
DRAWING CHANGE	<input type="checkbox"/>		2 <input type="checkbox"/>	<input type="checkbox"/> PMA MAJOR <input type="checkbox"/> TSO MAJOR			
SPECIFICATION	<input type="checkbox"/>		3 <input checked="" type="checkbox"/>	<input type="checkbox"/> PMA MINOR <input type="checkbox"/> TSO MINOR			
SPARES	<input type="checkbox"/>						
PREPARED BY	DATE	PROJECT ENG	DATE	QA	DATE	FAA SUBMITTAL	
GLORIA I. MARSHALL	10-04-96			W. Johnson	10/7/96	YES	
CHECKED BY	DATE	MFG	DATE	PROD SPRT	DATE	ENGRG APPR	DATE
W. Johnson	10/4/96		10/7/96			W. Johnson	10/4/96